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[1](#) [Ace: a language for parallel programming with customizable protocols](#)

Mukund Raghavachari, Anne Rogers

[August 1999 Transactions on Computer Systems \(TOCS\)](#) , Volume 17 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (297.50 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)
Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 46, Citation Count: 0

Customizing the protocols that manage accesses to different data structures within an improve the performance of software shared-memory programs substantially. Existing customizable protocols are hard to use directly ...

Keywords: parallel processing

 [2](#) [Space-efficient scheduling of nested parallelism](#)
[Girija J. Narlikar, Guy E. Blelloch](#)
[January 1999 Transactions on Programming Languages and Systems \(TOPLAS\)](#) , vo

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (481.02 KB)

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Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 64, Citation Count: 10

Many of today's high-level parallel languages support dynamic, fine-grained parallelism languages allow the user to expose all the parallelism in the program, which is typically higher degree than the number of processors. Hence an ...

Keywords: dynamic scheduling, multithreading, nested parallelism, parallel language space efficiency

 [3](#) [Rare event simulation of delay in packet switching networks using DPR-based spli](#)
[Zsolt Haraszti, J. Keith Townsend](#)
[December 1999 WSC '99: Proceedings of the 31st conference on Winter simulation bridge to the future - Volume 1](#) , Volume 1

Publisher: ACM

Full text available: Pdf (134.61 KB)

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4 [Medical applications of virtual reality](#)

Rusa Zajtchuk, Richard M. Satava

September 1997 **Communications of the ACM** , Volume 40 Issue 9**Publisher:** ACM

Full text available: Pdf (603.34 KB)

Additional Information: full citation, references, cited by, index t**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 123, Citation Count: 55 [Operational requirements for scalable search systems](#)

Abdur Chowdhury, Greg Pass

November 2003 **CIKM '03: Proceedings of the twelfth international conference on Informa knowledge management****Publisher:** ACM

Full text available: Pdf (294.93 KB)

Additional Information: full citation, abstract, references, cited b**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 36, Citation Count: 9

Prior research into search system scalability has primarily addressed query processing [3] or indexing efficiency [3], or has presented some arbitrary system architecture [4]. introduced any formal theoretical framework ...

Keywords: operational requirements, search scalability

6 [Analysis of the parallel packet switch architecture](#)

Sundar Iyer, Nick W. McKeown

April 2003 **IEEE/ ACM Transactions on Networking (TON)** , Volume 11 Issue 2**Publisher:** IEEE Press

Full text available: Pdf (619.44 KB)

Additional Information: full citation, abstract, references, cited b**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 64, Citation Count: 7

Our work is motivated by the desire to design packet switches with large aggregate ca line rates. In this paper, we consider building a packet switch from multiple lower spee operating independently and in parallel. In ...

Keywords: Clos network, inverse multiplexing, load balancing, output queueing, pack

7 [Stochastic service guarantees for continuous data on multi-zone disks](#)

Guido Nerjes, Peter Muth, Gerhard Weikum

May 1997 **PODS '97: Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symp Principles of database systems****Publisher:** ACM

Full text available: Pdf (1.19 MB)

Additional Information: full citation, references, cited by, index t**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 20, Citation Count: 98 [A common data management infrastructure for adaptive algorithms for PDE soluti](#)

Manish Parashar, James C. Browne, Carter Edwards, Kenneth Kimkowski

November 1997 **Supercomputing '97: Proceedings of the 1997 ACM/IEEE conference on (CDROM)****Publisher:** ACM

Full text available:

Additional Information: full citation, abstract, references, cited b



Pdf (160.93 KB)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 17, Citation Count: 11

This paper presents the design, development and application of a computational infras support the implementation of parallel adaptive algorithms for the solution of sets of p equations. The infrastructure is separated into ...

Keywords: HP-adaptive finite elements, adaptive mesh-refinement, distributed dynan structures, fast multipole methods, parallel adaptive algorithm, problem solving enviro

9 Priority-based distribution trees for application-level multicast



Jürgen Vogel, Jörg Widmer, Dirk Farin, Martin Mauve, Wolfgang Effelsberg

May 2003

NetGames '03: Proceedings of the 2nd workshop on Network and system su**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (272.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 28, Citation Count: 5

In this paper, we propose a novel multicast routing algorithm that is based on applicat and network characteristics: The application may specify an individual priority for each pair. The multicast distribution tree ...

Keywords: application-level multicast, distribution tree, multicast routing

10 Manageability, availability and performance in Porcupine: a highly scalable, cluste service



Yasushi Saito, Brian N. Bershad, Henry M. Levy

December 1999

SOSP '99: Proceedings of the seventeenth ACM symposium on Operating principles**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (1.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 32, Citation Count: 39

This paper describes the motivation, design, and performance of Porcupine, a scalable goal of Porcupine is to provide a highly available and scalable electronic mail service us cluster of commodity PCs. We designed Porcupine ...

Also published in:

December 1999 **SIGOPS Operating Systems Review** Volume 33 Issue 5

11 The Space Simulator: Modeling the Universe from Supernovae to Cosmology

Michael S. Warren, Chris L. Fryer, M. Patrick Goda

November 2003

SC '03: Proceedings of the 2003 ACM/IEEE conference on Supercomputing**Publisher:** IEEE Computer Society

Full text available: Pdf (2.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 28, Citation Count: 0


The Space Simulator is a 294-processor Beowulf cluster with theoretical peak perform: 1.5 Teraflop/s. It is based on the Shuttle XPC SS51G mini chassis. Each node consists

Pentium 4 processor, 1 Gb of 333 MHz DDR SDRAM, an ...

Keywords: Beowulf, cluster, price/performance, astrophysics, N-body

- 12 [Energy-performance trade-offs for spatial access methods on memory-resident da](#)
[Ning An, Sudhanva Gurumurthi, Anand Sivasubramanian, Narayanan Vijaykrishnan, Mah](#)
[Mary Jane Irwin](#)
 November 2002 **The VLDB Journal — The International Journal on Very Large Data**
 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (641.55 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 50, Citation Count: 2

The proliferation of mobile and pervasive computing devices has brought energy const
 limelight. Energy-conscious design is important at all levels of system architecture, and
 a key role to play in conserving battery energy ...

Keywords: Energy optimization, Multidimensional indexing, Resource-constrained con
 data



- 13 [Merging multiple conventional models in one stable model](#)



[Mohamed Fayad, Shasha Wu](#)

September 2002 **Communications of the ACM**, Volume 45 Issue 9

Publisher: ACM  [Request Permissions](#)

Full text available:  [Html](#) (28.29 KB),  [Pdf](#) (135.68 KB)

Additional Information: [full citation](#), [abstract](#), [refer](#)
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 63, Citation Count: 1

Stability models may demand greater investment in analysis, but when used wisely, se
 development and maintenance costs more than make up for it.


- 14 [Phoenix: a parallel programming model for accommodating dynamically joining/lea](#)



[Kenjiro Taura, Kenji Kaneda, Toshio Endo, Akinori Yonezawa](#)

June 2003 **PPoPP '03: Proceedings of the ninth ACM SIGPLAN symposium on Principles
 parallel programming**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (197.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited b](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 43, Citation Count: 7

This paper proposes Phoenix, a programming model for writing parallel and distributed
 accommodate dynamically joining/leaving compute resources. In the proposed model,
 an application see a large and fixed *virtual* ...

Keywords: *distributed programming, message passing, migration, parallel program
 reconfiguration*

Also published in:

October 2003 **SIGPLAN Notices** Volume 38 Issue 10



Conserving disk energy in network servers

Enrique V. Carrera, Eduardo Pinheiro, Ricardo Bianchini

June 2003 **ICS '03**: Proceedings of the 17th annual international conference on Supercomputing

Publisher: ACM Request Permissions

Full text available: Pdf (167.83 KB)

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 97, Citation Count: 53

In this paper we study four approaches to conserving disk energy in high-performance. The first approach is to leverage the extensive work on laptop disks and power disks during periods of idleness. The second approach is to replace ...

Keywords: disk power, energy conservation, network servers

16 Introduction to programming shared-memory and distributed-memory parallel com



Cory Quammen

April 2002 **Crossroads**, Volume 8 Issue 3

Publisher: ACM Request Permissions

Full text available: Html (36.78 KB), Pdf (100.48 KB) **Additional Information:** full citation, references, in

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 27, Citation Count: 0

17 Application level hand-off support for mobile media transcoding sessions



Sumit Roy, Bo Shen, Vijay Sundaram, Raj Kumar

May 2002 **NOSSDAV '02**: Proceedings of the 12th international workshop on Network and systems support for digital audio and video

Publisher: ACM Request Permissions

Full text available: Pdf (222.88 KB)

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 20, Citation Count: 5

Media transcoding can be used to enable mobile devices that have low resolution and limited capabilities to access content created for stationary, desktop clients with high bandwidth. By deploying transcoding servers near the edge of ...

Keywords: hand-off, mobility, transcoding

18 Performance of a parallel global atmospheric chemical tracer model



James Demmel, Sharon Smith

December 1995 **Supercomputing '95**: Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: Html (2.73 KB), Pdf (241.52 KB) **Additional Information:** full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 14, Citation Count: 1


As part of a NASA HPCC Grand Challenge project, we are designing and implementing a parallel atmospheric chemical tracer model that will be suitable for use in global simulations. The goal, our starting point has been an atmospheric pollution ...

19 Adaptive protocols for parallel discrete event simulation

Samir R. Das

November 1996 **WSC '96**: Proceedings of the 28th conference on Winter simulation

Publisher: IEEE Computer Society


Full text available:  Pdf (926.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 18, Citation Count: 8


This paper reviews issues concerning the design of adaptive protocols for parallel discrete simulation (PDES). The need for adaptive protocols are motivated in the background of synchronization problem that has driven much of the research in ...

20 **Florida International University High Performance Database Research Center**

 Naphtali Rish, Wei Sun, David Barton, Yi Deng, Cyril Orji, Michael Alexopoulos, Leonardo Ordonez, Mario Sanchez, Artyom Shaposhnikov

September 1995 **SIGMOD Record**, Volume 24 Issue 3

Publisher: ACM

Full text available:  Pdf (25.69 KB)

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